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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B29C45/33 B29C B29C45/56 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) B29C IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included, in the fields searched Electronic data base consulted during the international search (name of data base and, whose practical, search terms used) EPO-Internal, PAJ C. DOCUMENT'S CONSIDERED TO BE RELEVANT Aelevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages 1-6, PATENT ABSTRACTS OF JAPAN X 11 - 15vol. 0185, no. 24 (M-1682) 4 October 1994 (1994-10-04) & JP 6 182835 A (NISSEI PLASTICS IND CO), 5 July 1994 (1994-07-05) abstract 1-6,8, US 6 322 349 B1 (HORAOKU YUKIO ET AL) 27 November 2001 (2001-11-27) X 12-15 the whole document 1-5. PATENT ABSTRACTS OF JAPAN A vol. 0062, no. 07 (M-165), 19 October 1982 (1982-10-19) 11-15 & JP 57 115330 A (TOSHIBA KIKAI KK), 17 July 1982 (1982-07-17) abstract Patent family members are listed in annex. Further documents are listed in the continuation of box C. *T* later document published after the international filing date or priority date and not in conflict with the application but check to understand the principle or theory underlying the Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is laken along 'E' earlier document but published on or after the international "L" document which may throw doubts on priority claim(s) or which is cited to adablish the publication date of snother cliation or other special reason (as specified) 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive stap when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled 'O' document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed 4. document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 05/04/2004 24 March 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax (+31-70) 340-3018 Kujat, C



PCT/NL 03/00764

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